

Title (en)
Copper alloy and method of manufacturing the same

Title (de)
Kupferlegierung und Verfahren zu deren Herstellung

Title (fr)
Alliage de cuivre et procédé pour sa fabrication

Publication
EP 1630239 B1 20071017 (EN)

Application
EP 05018715 A 20050829

Priority
JP 2004250938 A 20040830

Abstract (en)
[origin: EP1630239A1] A copper alloy of superior flex durability is provided that is suitable for the conducting members of flexible printed circuits. This is a copper alloy where the integrated intensity ratio $I\{200\} / I\{111\}$ found by x-ray diffraction of the rolled surface is 1.5 or less. Examples of its specific chemical composition are: a composition where, in percent by weight, Fe: 0.045-0.095%, P: 0.010-0.030%, the sum of all elements other than Fe, P and Cu is less than 1% and the balance is Cu, and a composition where, in percent by weight, Ni: 0.5-3.0%, Sn: 0.5-2.0%, P: 0.03-0.10%, the sum of all elements other than Ni, Sn, P and Cu is less than 1% and the balance is Cu. The copper alloy has a conductivity of 85% IACS or greater.

IPC 8 full level
C22C 9/00 (2006.01); **C22C 9/02** (2006.01); **C22C 9/06** (2006.01); **C22F 1/08** (2006.01)

CPC (source: EP US)
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